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## PATENT ABSTRACTS OF JAPAN

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(71)Applicant : FUJI ELECTRIC CO LTD

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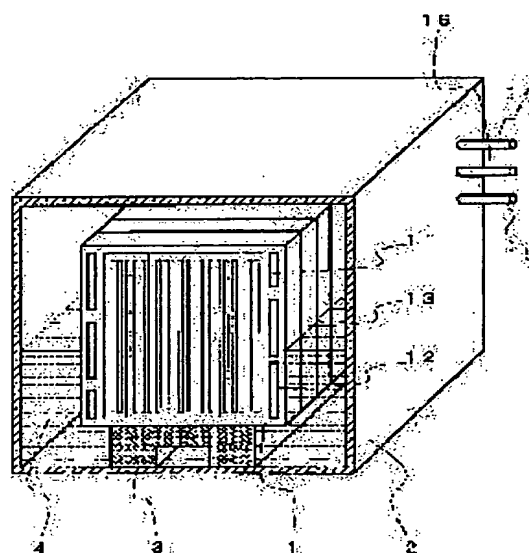
(72)Inventor : KUSUSE NOBUHIKO

## (54) POLYMER ELECTROLYTE FUEL CELL

## (57)Abstract:

PROBLEM TO BE SOLVED: To provide a polymer electrolyte fuel cell of a compact type wherein electric insulation is maintained satisfactorily, even under severe conditions, and heat of reaction is collected efficiently.

SOLUTION: A stack 1 of the fuel cell is contained in a sealed container 2 and fixed to the sealed container 2 via an insulation space 3. An electrically insulative liquid 4 is filled in a space surrounding the stack 1 of the fuel cell within the sealed container 2, and the stack 1 of the fuel cell and the sealed container 2 are insulated electrically. Then, the electrically insulative liquid 4 risen in temperature, after receiving the heat of reaction, is fed to an outside heat exchanger to collect heat, and then the liquid is again returned to the sealed container 2.



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